

1) CONSTRUCTION:
 CONDUCTOR: 22 AWG 19/.0058 STRANDED TINNED COPPER
 INSULATION: HIGH DENSITY POLYETHYLENE, .010" NOM. WALL THICKNESS
 PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS
 CABLE: (4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH CLEAR POLYESTER TAPE TO FORM A CABLE CORE
 JACKET: THERMOPLASTIC ELASTOMER, (**COLOR, PER CHART 1**), .042" NOM. WALL THICKNESS (PRESSURE)
 OVERALL CABLE DIAMETER

NOM. DIA.
 .028"
 .048" MAX.
 .098"
 .206"
 .290" NOM ± .005"

2) PHYSICAL PROPERTIES:
 TEMPERATURE RATING, MAX. 75°C & 80°C, (JACKET 105°C, 75°C OIL)
 TEMPERATURE RATING, MIN. -40°C
 WT./M', NOM., NET. 41.5 LBS.
 JACKET IS WELD SPATTER RESISTANT
 JACKET IS SUNLIGHT RESISTANT
 JACKET IS CUTTING/MACHINING OIL RESISTANT (PER QUABBIN TEST REPORT #TR 08-0001)
 (6 MONTHS @ 20°C)
 TENSILE STRENGTH RETENTION, NOM. 80%
 ELONGATION RETENTION, NOM. 100%
 POE COMPLIANT (802.3af) TO 100 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184
 CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 100 METER LENGTH
 FLEX LIFE 1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS)
 10 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RADIUS)

CHART 1:

QUABBIN P/N	JACKET COLOR
5800	BLACK
5801	BLUE
5802	TEAL

3) ELECTRICAL CHARACTERISTICS:
 SEE PAGE 2

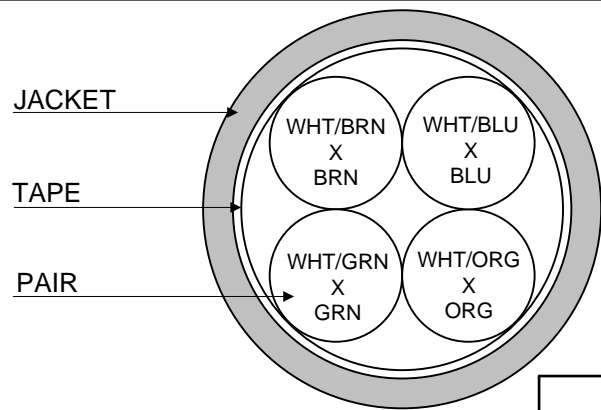
4) AGENCY APPROVALS:
 UL AWM 2463 (80C 600V)
 NEC (UL) TYPE PLTC
 NEC (UL) TYPE CMX OUTDOOR - CM
 CEC C(UL) TYPE CMX OUTDOOR - CM
 PENNSYLVANIA D.E.P. – MSHA
 EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II).

5) APPLICATION:
 FOR APPLICATIONS REQUIRING A RUGGED PATCH CORD ASSEMBLY. DESIGNED TO RELIABLY TERMINATE TO M12 CONNECTORS. LOW LOSS DESIGN MEETS CAT 5E CHANNEL INSERTION LOSS AT 100M ALLOWING LONG PATCH RUNS.

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
 QUABBIN DATAMAX EXTREME HI-FLEX INDUSTRIAL 5e ETHERNET/IP PATCH CORD P/N (**QWC P/N PER CHART 1**)
 -- (UL) TYPE PLTC OIL RES I & II SUN RES OR C(UL)US TYPE CMX OUTDOOR - CM 4PR U/UTP 22 AWG 75C OR AWM 2463 80C 600V -- P-07-KA140018-MSHA -- CE RoHS -- (**LOT DESIGNATOR**) (**SEQUENTIAL FOOTAGE**)

7) COLOR CODE:
 1. WHITE/BLUE X BLUE
 2. WHITE/ORANGE X ORANGE
 3. WHITE/GREEN X GREEN
 4. WHITE/BROWN X BROWN

8) PUT UPS
 AVAILABLE IN STANDARD 1000 FT REELS OR IN LONGER BULK PUTUPS



Created 09/13/13	BMD	
DRAWN: 03/21/18	ZRS	
REV. 05	CHECKED: 03/21/18	
TITLE DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET PATCH CABLE -- 4 PR -- TYPE PLTC, TYPE CMX OUTDOOR - CM, STYLE 2463, MSHA		
DRAWING #	QWC0036	1 of 2


CUSTOMER APPROVAL: _____ DATE: _____

3) ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)

CAPACITANCE, MUTUAL, NOM.	13.5 PF/FT. AT 1 MHz
DIELECTRIC WITHSTANDING, MIN.	2000V RMS
VOLTAGE RATING, MAX.	600V
D.C. RESISTANCE, MAX.	6.0 Ω
IMPEDANCE, NOM.	100 ± 10 Ω 1 - 100 MHz
RETURN LOSS	$1 \leq f < 10 \text{ MHz}$ 20 + 6 LOG(<i>f</i>) dB MIN* $10 \leq f < 20 \text{ MHz}$ 26 dB MIN* $20 \leq f \leq 100 \text{ MHz}$ 26- 5 LOG(<i>f</i> /20) dB MIN*
NEXT	$1 \leq f \leq 100 \text{ MHz}$ 35.3 - 15 LOG(<i>f</i> /100) dB MIN
PSNEXT	$1 \leq f \leq 100 \text{ MHz}$ 32.3 - 15 LOG(<i>f</i> /100) dB MIN
ACRF	$1 \leq f \leq 100 \text{ MHz}$ 23.8 - 20 LOG(<i>f</i> /100) dB MIN
PSACRF	$1 \leq f \leq 100 \text{ MHz}$ 20.8 - 20 LOG(<i>f</i> /100) dB MIN
INSERTION LOSS	$1 \leq f \leq 100 \text{ MHz}$ 1.1*[1.967 √ <i>f</i> + 0.023(<i>f</i>) + 0.050/√ <i>f</i>] dB MAX
DELAY	$1 \leq f \leq 100 \text{ MHz}$ 534 + 36/√ <i>f</i> ns MAX
DELAY SKEW	$1 \leq f \leq 100 \text{ MHz}$ < 45 ns
VELOCITY OF PROPAGATION	68%

*PER ODVA VOLUME 2 ETHERNET/IP

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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DRAWING #		QWC0036
		2 of 2

CUSTOMER APPROVAL:

DATE: